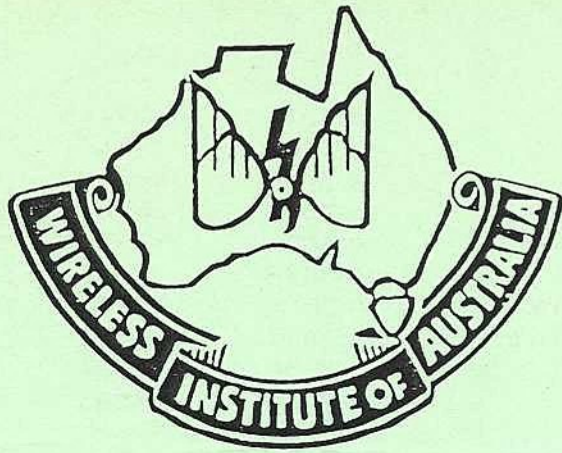
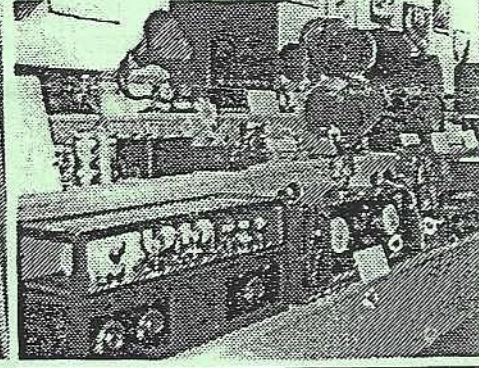
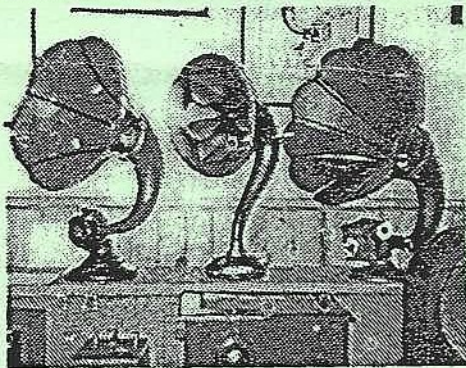
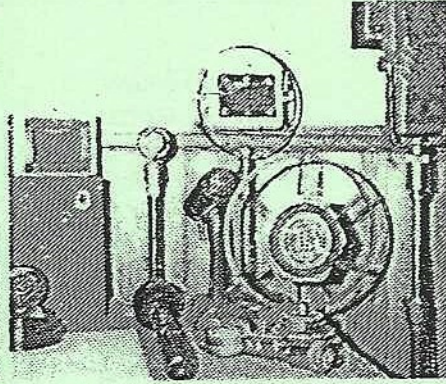
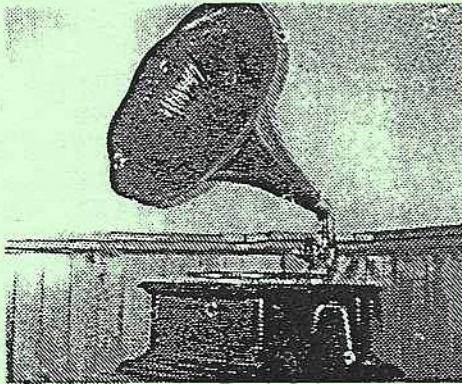




B·A·R·G NEWS



© Monthly Newsletter of the
Ballarat Amateur Radio Group

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MEMBERS REP	Mary Curnow	VK3FMC	301927	
	Reg Carter	VK3CAZ	417585	

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AWARDS MANAGER	Maurie Batt	VK3XEX	422245	
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HAMFEST CONVENER	Kevin Hughes	VK3WN	355011	
WICEN COMMITTEE	Gordon Cornell	VK3KGC	392427	391135
	Geoff Smith	VK3ADB	332112	
	Tom George	VK3DMK	355662	327234
TECHNICAL COMMITTEE	Ian McDonald	VK3AXH		311317
	Dick Forrester	VK3VU	357663	391001
	Merv Hooley	VK3KAW		311317
	David McConnell	VK3YNB		
NEWSLETTER EDITORS	Bob Terrill	VK3BNC	395317	391001
	Harry Hekkema	VK3KGL	357563	391001

PEPEATERS: VK3RBA - 146.750 Voice. Mt. Buninyong. (Ch. 3)
 VK3RBS - 146.900 Voice. Smeaton Hill. (Ch. 6)
 VK3RPC - 147.600 Packet. Mt. Warrenheip
 VK3RBU - 438.475 Voice. Smeaton Hill

CLUB NET: On 3.5610 Mhz. SSB +/- QRM.
 Every Thursday at 8 PM.

MEETINGS: Held every last Friday of
 month at 7.30 PM. in the
 Ballarat Community Education Centre.
 Hopetoun St.
 Ballarat.

CORRESPONDENCE TO: THE SECRETARY,
 BARG Inc
 P.O. BOX 216E
 BALLARAT EAST 3350.

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PRESIDENTS REPORT

Well it was good to see so many visitors to the BARG Hamvention, a great display of exhibitors and preloved gear tables. From the comments received from visitors and exhibitors, the new site was definitely a good move.

Thanks must go to Kevin VK3WN for his organization of the weekend and also thanks to those who helped during the day with the food, cleaning etc etc..

On the Tuesday after the Hamvention BARG held its first exam session under the new WIA EXAM SERVICE procedure, all seemed to go well with Ian VK3JAT now VK3EF and a couple of candidates with their regulations passed. Provisional results were given to candidates on the night with official notification arriving the following Monday.

The results of the scramble so far are printed below, if you are participating in scramble don't forget to bring you're log sheets with you to the meetings.

Don't forget the November meeting is the last for the year and its pie and sausage roll night. Also for those interested I will be bringing along my packet radio station for members to operate, and see the network Peter VK3AVE spoke about a few months ago.

73's TOM VK3DMK

SCRAMBLE RESULTS

VK3KAY	185
VK3VEJ	172
VK3DCS	143
VK3JAT	83
VK3CIS	76
VK3DOK	70

WANTED.....

Operators are needed for a WICEN activation on Saturday Dec 7th. Operators will be required to help with transmission of scoring details at an equestrian event being held at Darlington, 100Kms SW of Ballarat.

The organisers will be supplying lunch and refreshments to operators who will be located around the course. Equipment required, 2m rig and vehicle...

For further details contact Tom VK3DMK or Gordon VK3FGC.

This an opportunity to display amateur radio to the community and an opportunity to practice for more serious activities should the need arise.

EDUCATION

In 1992 BRACE is offering two terms (18) weeks to the club for the Novice course. As we all know, the running of this course depends on the number of participants. Please make known to your friends who are interested in becoming involved in our hobby about the course and advise us of names and addresses.

BRACE have streamlined their operation for the coming year which involves some minor changes.

The course will commence on February 20, 1992, at 7-30 pm and last for two hours.

The previous free tea/coffee is off but a canteen is available in the student lounge where drinks and light meals will be provided at non-profit costs to students. Tea/coffee will be 50 cents each.

Those members who have offered their assistance for the course, please keep Thursdays 7-30 to 9-30 pm free.

73's VK3AXH

Morse — Dots and dashes

Samuel Finley Breese Morse was the inventor of the alphabet of dots and dashes known and used throughout the world as the Morse Code.

Born in Charlestown, Massachusetts, USA, on April 27, 1791, he was the son of a clergyman.

His ambition was to be a painter, and he studied painting at Yale University and afterwards in England. He painted scenes from history. But nobody would buy them. So he turned to portrait painting to make a living.

It was in 1832, on his way home from further art study in Europe, that after a shipboard conversation on the newly-discovered electromagnet, he thought up the idea of a single circuit electromagnetic telegraph.

But when he got back to New York, he did nothing about it for some time.

He devoted himself to painting, teaching Art at New York University, and to politics. He twice ran for mayor of New York, but was not elected.

He probably made his first working telegraph by 1835, and in 1837 a friend, Alfred Vail, offered, through his family's iron works near New York, to provide the materials and labor to build telegraph models.

Morse developed his now-famous Morse Code in 1838. The same year he made an unsuccessful attempt to persuade Congress to build a telegraph line.

He tried, too, to get one built in Europe. But again he failed.

Then, in 1843, Congress voted to pay Morse to build the first telegraph line in the United States, from Baltimore to Washington.

The next year, Morse sent the first message

on this line: "What Hath God Wrought."

Immediately rival inventors began to claim that the telegraph was their idea. And Morse had to fight a long series of court battles to establish his patent rights.

Finally, the Supreme Court decided he was the true inventor.

As telegraph lines spread, he was rewarded by many governments in Europe for his invention. He died in New York on April 2, 1872.

REPRINT FROM

BALLARAT COURIER

14-10-83.

MINUTES OF GENERAL MEETING HELD OCTOBER 25th 1991

MEETING OPENED at 7.55pm by President Tom VK3 DMK with 41 members present
APOLOGIES VK3 CFH, CHH, FCC, VEJ, PDB, KAM, PAP, FCC, DCS, CIS, DS

MINUTES of previous meeting as circulated were confirmed KGL/CAZ

CORRESPONDENCE IN GARC Newsletter IARS Newsletter

CORRESPONDENCE OUT WIA Application for accreditation of Examiners
WIA Order for 25 1992 Callbooks

TREASURERS REPORT General a/c \$1111.63 VS&L a/c \$5094.70
Accounts totaling \$442.09 passed for payment KGL/CAZ
\$500.00 transferred to Convention account

BARG NET John CFH reported good support for net which now starts 8.30pm

NEWSLETTER Material for publication is still required

HAMVENTION Convener Kevin WN gave a very full report on Hamvention arrangements the only item outstanding is the weather which he has in hand

EDUCATION Examinations will be held on October 29th

GENERAL BUSINESS

It was resolved that a meeting will be held in January and that supper will be provided at the close of the November meeting.

Moved JAT seconded AXH that Club purchase 1992 International and North American Callbooks. 1989 Callbooks will be raffled at November meeting.

MEETING CLOSED at 8.45pm.

73s. Jim CFB.

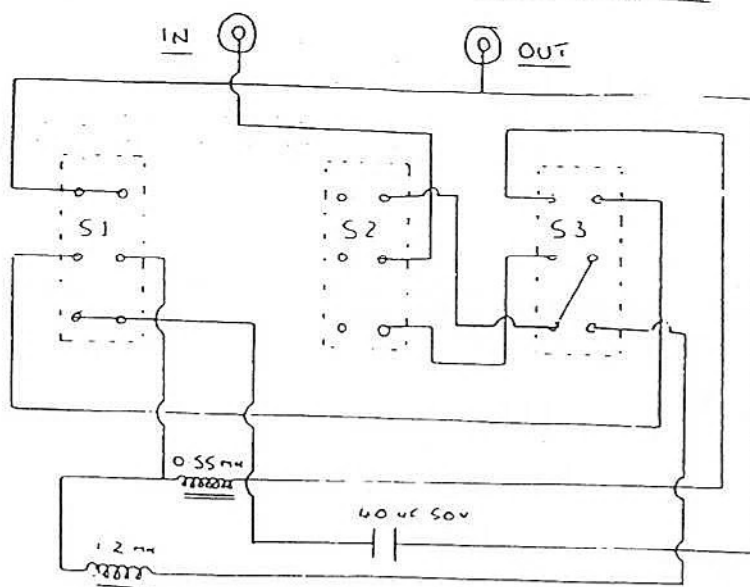
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NEXT BARG MEETING will be held on January 31st. Education Centre at 7.30pm.

=====

SPEAKER FILTER UNIT

by TOM VK5NTW



S1 - S3 SLIDE SWITCHES

FROM: EX 'G' RADIO CLUB NEWSLETTER OF NOV 1980

A SHIELDED LOOP WITH SENSING ANTENNA FOR 28 MHz

Fig. 18 shows the construction and mounting of a simple, shielded, 10-meter loop. The loop is made from an 18-inch length of RG-11/U (solid or foamed dielectric) secured to an aluminum box of any convenient size, with two coaxial cable hoods (Amphenol 83-1HP/U). The outer shield must be broken at the exact center. C1 is a 25-pF variable capacitor, and is connected in parallel with a 33-pF mica padding capacitor, C2. C1 must be tuned to the desired frequency while the loop is connected to the receiver in the same way as it will be used for RDF. C2 is a small differential capacitor used to provide electrical symmetry. The lead-in to the receiver is 67 inches of RG-59/U cable (82 inches if the cable has foamed dielectric).

The loop can be mounted on the roof of the car with a rubber suction cup. The builder might also fabricate some kind of bracket assembly to mount the loop temporarily in the window opening of the automobile, allowing for loop rotation. Reasonably true bearings may be obtained through the windshield when the car is pointed in the direction of the hidden transmitter. More accurate bearings may be obtained with the loop held out the window and the signal coming toward that side of the car.

Sometimes the car broadcast antenna may interfere with accurate bearings. Disconnecting the antenna from the broadcast receiver may eliminate this trouble.

Sensing Antenna

A sensing antenna can be added to the loop to check on which of the two directions indicated by the loop is the correct one. Add a phono jack to the top of the aluminum case shown in Fig. 18. The insulated center terminal of the jack should be connected to the side of the tuning capacitors connected to the center conductor of the RG-59/U coax feed line. The jack then takes a short vertical antenna rod of a diameter to fit the jack, or a piece of no. 12 or 14 solid wire may be soldered to the center pin of a phono plug for insertion in the jack. The sensing antenna can be plugged in as needed. Starting with a length of about four times the loop diameter, the length of the sensing antenna should be pruned until the pattern is similar to Fig. 1D.

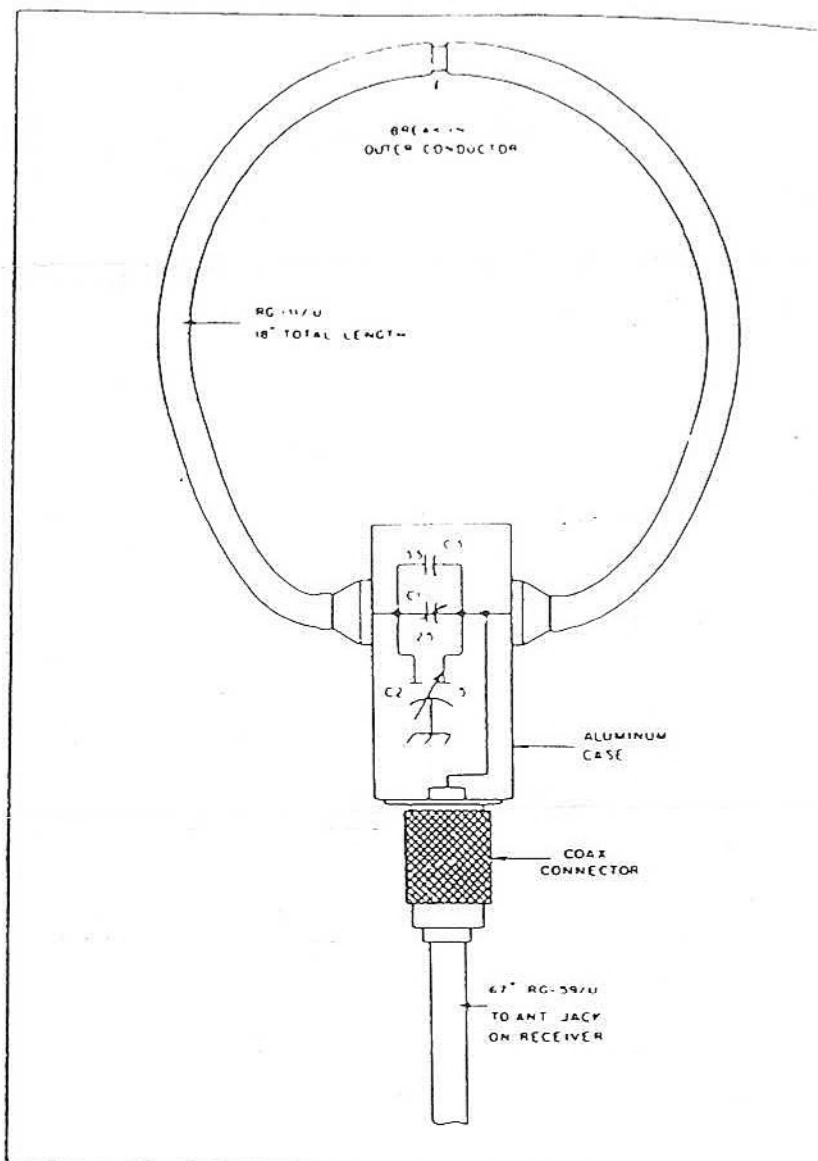


Fig. 18 — Sketch showing constructional details of the 28-MHz RDF loop. The outer braid of coax loop is broken at the center of the loop. The gap is covered with waterproof tape, and entire assembly is given a coat of acrylic spray.

COLAC KIDS CALL COSMOHAMS

Once again Year 11 Information Technology students at Trinity College Colac combined amateur radio and their VCE studies. The students are studying telecommunications software for the Folio Work Requirement for the VCE.

Lyndall Parker and Karen McGuane, using the school amateur radio callsign VK3FXQ, sent a message to the orbiting Space Station MIR on Tuesday evening 22 October.

When the space station passed over Colac, they uploaded the prepared message from their computer in order to send a signal to the computer at MIR. This is the second time the girls connected with MIR.

This second go was quite different from the first time. The girls watched the screen fill up with callsigns. They waited for the LOG OFF and disconnect frames. Then, fingers flying across the keyboard, they tried to connect with the USMIR-1 pms. After some determined watching, they connected but managed to keep calm after the connect bells went off.

After they logged off, jubilation reigned in the shack. The message read:

Hi Sergey! Hi Aleksandr!
1992 is going to be the International Year of the Satellite (ISY).
In Colac it started in 1991. Best wishes.

I am very proud of them.

de Maggie VK3CFI

MANY THANKS

In Units 1 and 2 of VCE Information Technology, students needed to study several software types. Many chose the standard word processing and spreadsheets. In my course at Trinity College Colac I offered Paket as well. Only 3 schools in the entire State offered software in telecommunications, by the way, and the other two chose modem software.

We used the school callsign, VK3FXQ. 6 students studied Paket and they all passed this folio Work Requirement. At times, it was difficult. And this is where the THANKS come in.

All the kids made errors. All the kids had to practice over and over. This caused a fair bit of QRM on the packet frequency. One boy actually sent a message to VK3RPG!!! I applaud all those who restrained themselves from sending a reply. The temptation must have been great.

So, from us all: THANK YOU !

Daz, Kaz, Jamie, Ian, Ad, Lyndall
and

Maggie VK3CFI

Analysis of 1991 RD Contest Operation

On the 17/18 August I participated in the RD contest for most of the 24 Hours available this year. I had prepared for operation on 80m, 40m, 15m and 2m bands about a week before-hand hoping for reasonable HF conditions to prevail. I had also set up a comfortable chair and a heater to keep the room warm as I knew I would be spending some time locked in this position.

This year the contest started at 08:00 UCT (18:00 Local) which is about the time HF conditions alter very significantly. With this in mind I concentrated on 40m for the first half-hour to get a lot of the 'close' VK1, VK2 and VK5 stations. I then switched to 2m FM which could be described only as constant QRM.

The 2m pile-ups continued unabated but with a careful listen, the fresh stations kept popping up were usually grabbed before other stations got stuck into them. It was unfortunate to observe that 146.5 was often the only channel in use with way too many stations attempting QSO's. Many times I got new stations to QSY to 146.55 / 146.45 and usually a lot of other stations followed. This kept up my QSO rate very noticeably.

At this point I knew that without a solid 2m signal, I would be QRM'ed out of contention, so 60 watts into a 4.5dB omni up about 20 meters made a significant impression. So much so that stations over 100Km away were worked.

On HF, operation from a suburban block is always a compromise with regard to antenna size and received noise. I lashed up a temporary dipole between two trees, one near the vacant house next door. With a good ATU in line I maximised the signal while keeping TVI etc. away.

The contest operation then settled down into a cycle of 2m then HF with about 45 minutes on 2m every 2 Hours to get the repeat contacts. Into the night, HF opened up but operation was restricted to 40m as there was only DX on 15m and QRN on my 80m setup. Just before dawn on Sunday, I logged about 40 ZL stations and then conditions effectively switched to 'Local' in a 20 minute period.

Sunday brought a complete new batch of stations on both HF and 2m and the cycle of operation continued. Just prior to contest close at 08:00 UCT Sunday, the ZL stations came up and I worked about 15 more, although I do confess to stepping on a few lengthy QSO's in the last 15 minutes to bring my Tally to 510 contacts.

In review, contests are exactly that. I observed too many stations engaging in lengthy QSO's of more than 2 minutes. Contest QSO's should last about 10 to 15 SECONDS !.

David Burger VK3HZ

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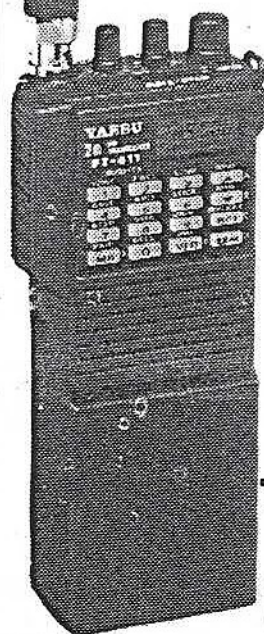
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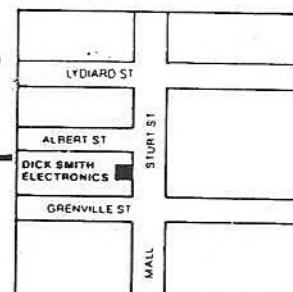
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Microbee has internal ROM containing word processing, database, spreadsheet, modem software, and Basic. It has screen format of 80x20 in TELCOM mode. It also has a Z80 assembler in ROM. Used by me for monitoring Packet Radio.

Make a good portable terminal or PACKET console. The computer/monitor uses 10-12V DC.

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CONTACT DAVID - VK3YNB.

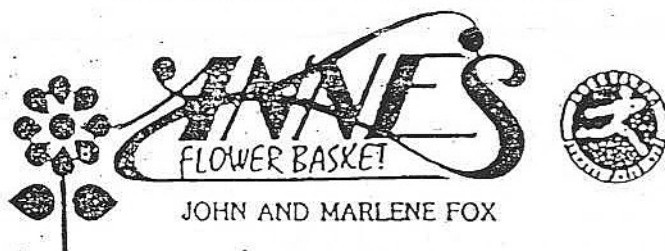
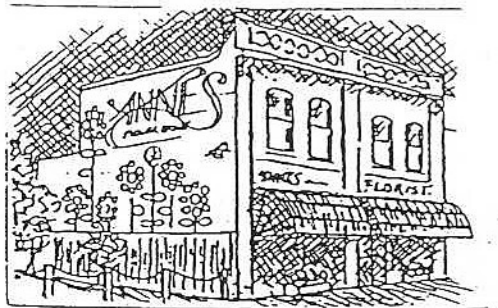
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